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## Guima, the theoretical pioneer in semiconductors in Brazil

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### **Abstract**

Professor Luiz Guimarães Ferreira, Guima as he was called by his friends, passed away last year. He was born in Rio de Janeiro in January 1937, he attended Santo Inácio College, graduating at the top of his class. He joined ITA in 1955 in first place in the entrance exam and was most brilliant undergraduate student at ITA. He majored in Electronic Engineering in 1959, and soon joined MIT where he obtained his Ph.D. in 1964 under the guidance of Professor George W Pratt Jr. in Professor Slater's group. Professor Guimarães, was the first theoretical physicist in Semiconductors in Brazil and pioneered the intensive use of computers to understand the electronic structures of solids, molecules, and atoms. Full Professor at the Institute of Physics at University of São Paulo, SP, where he worked from 1965 to 1990. After retiring he was a visiting professor at the State University of Campinas. He was the Director of the Institute of Physics at USP from 1982 to 1986 and was a full member of the Brazilian Academy of Sciences. One of the pioneers in the field of Solid State Physics in Brazil, he exerted a great influence on the formation of the research community in the area of Electronic Structure. I will talk a little bit about his contribution to condensed matter physics and his important contribution to the training of our researchers.